

FIG. 2
Related Art

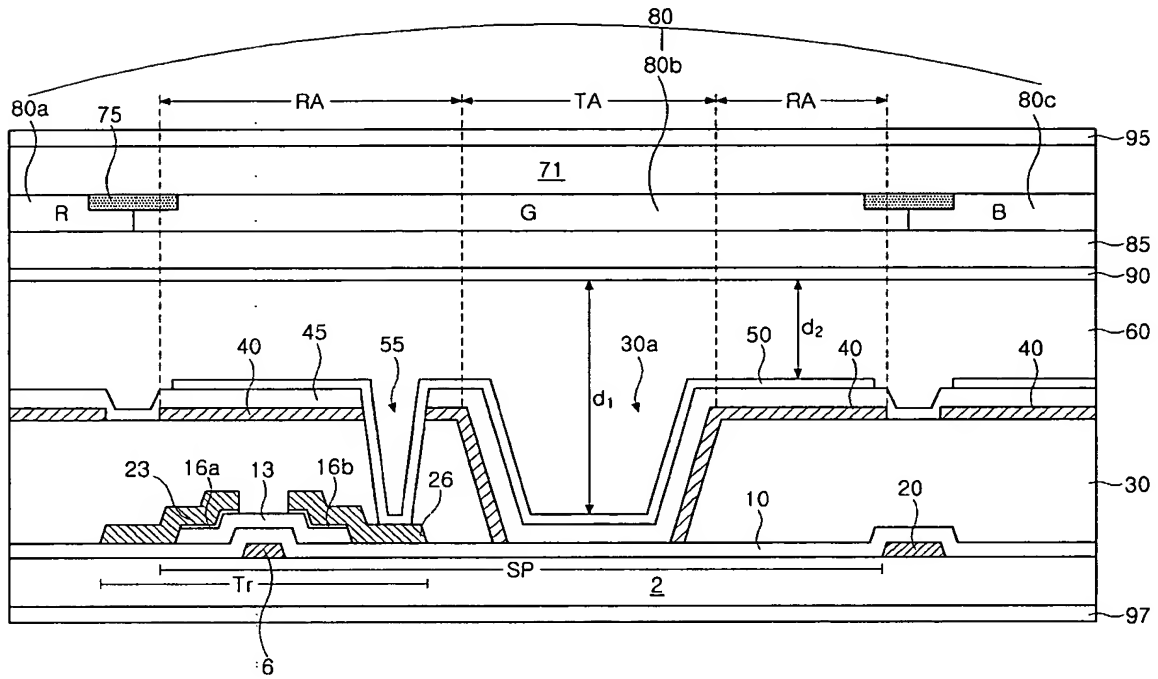


FIG. 3
Related Art

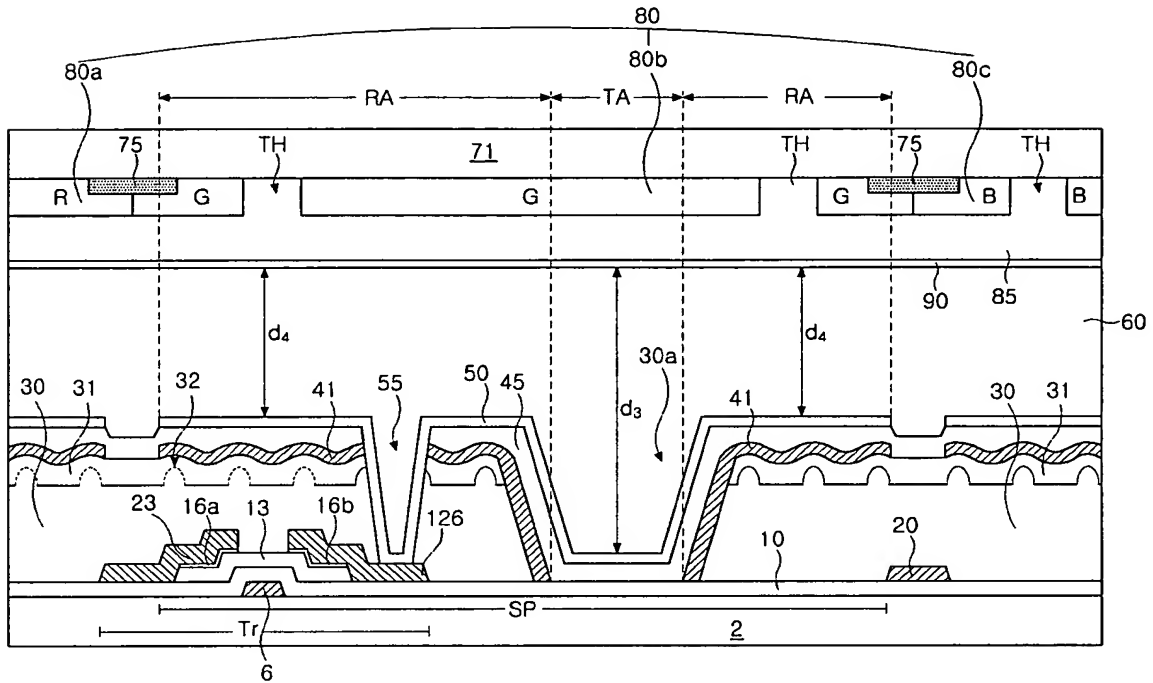


FIG. 4

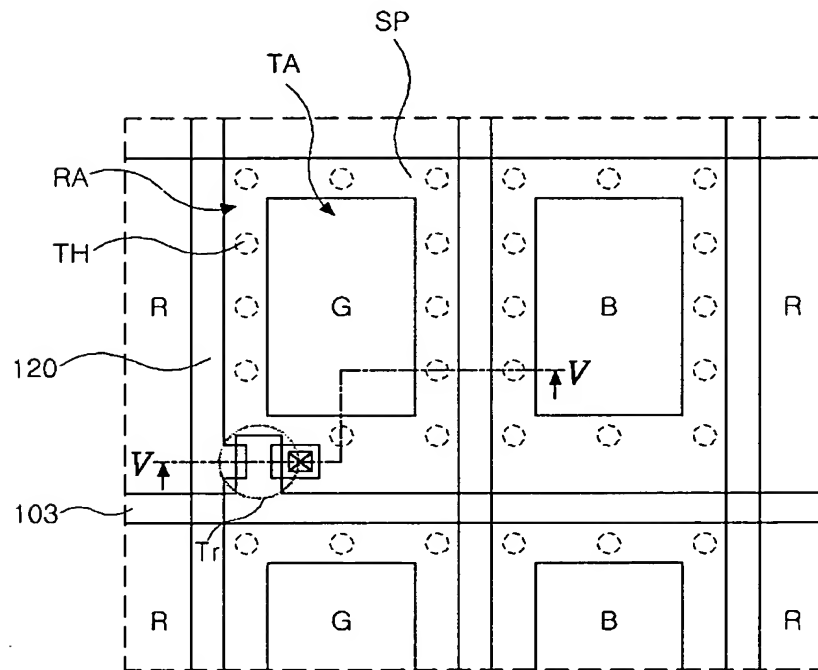


FIG. 7A

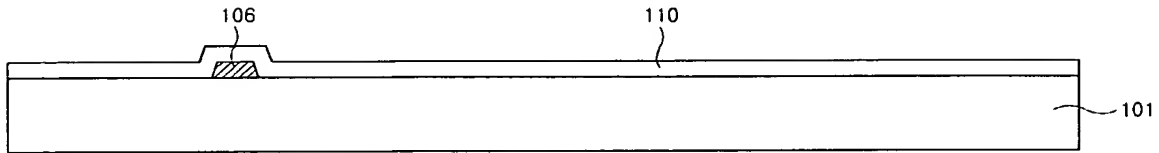


FIG. 7B

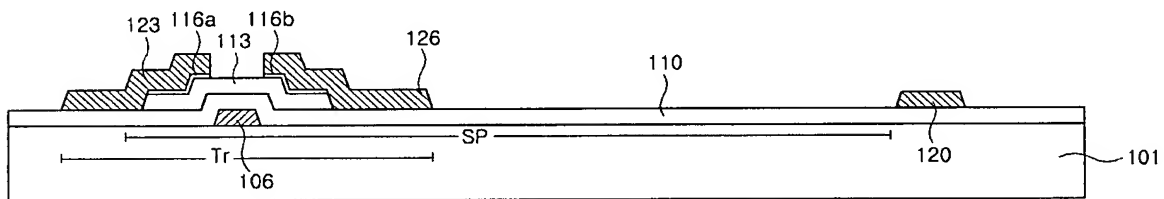


FIG. 7C

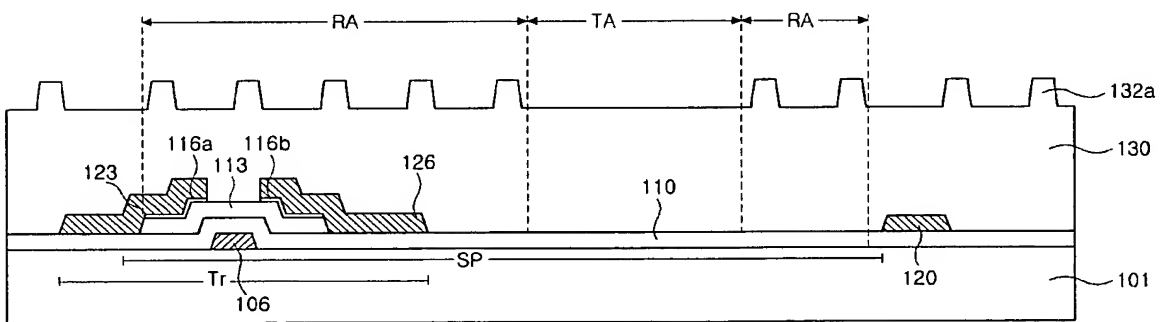


FIG. 7D

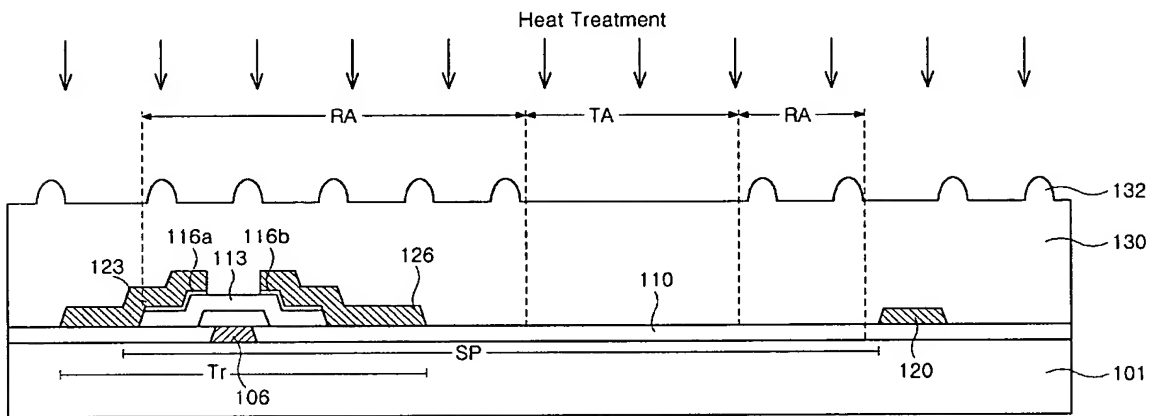
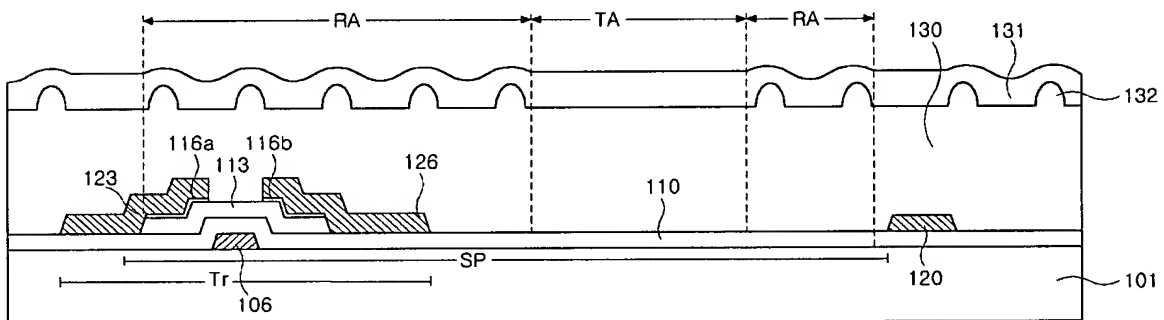


FIG. 7E



[illegible]

This cross-sectional view illustrates a semiconductor device with a substrate 201. A thin layer 210 is deposited on the substrate. A patterned layer 220 is formed on top of 210, with a central region 226 and side regions 216a and 216b. A layer 223 is deposited over the patterned layer 220. A layer 230 is deposited over the entire structure. A layer 206 is formed on the substrate 201, with a central region 213 and side regions 216a and 216b. A layer 223 is deposited over the patterned layer 220. A layer 230 is deposited over the entire structure. The diagram also shows a series of downward arrows indicating a process flow, and labels RA, TA, and SP indicating different regions or steps.

FIG. 8C

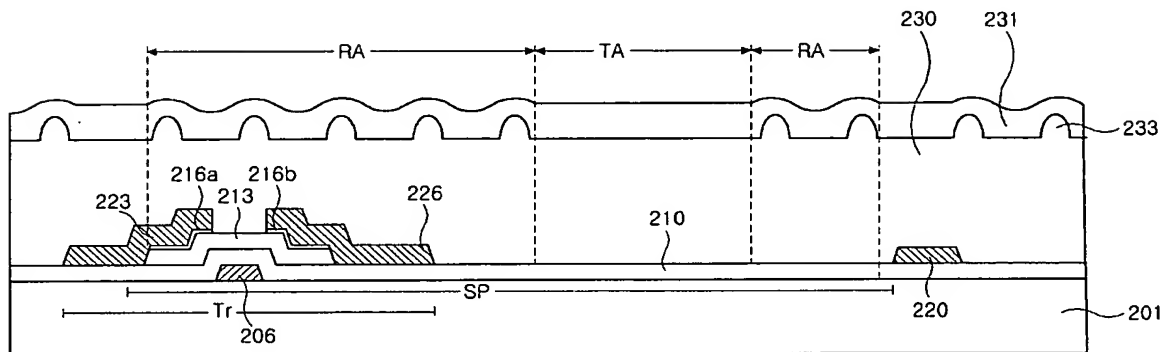


FIG. 8D

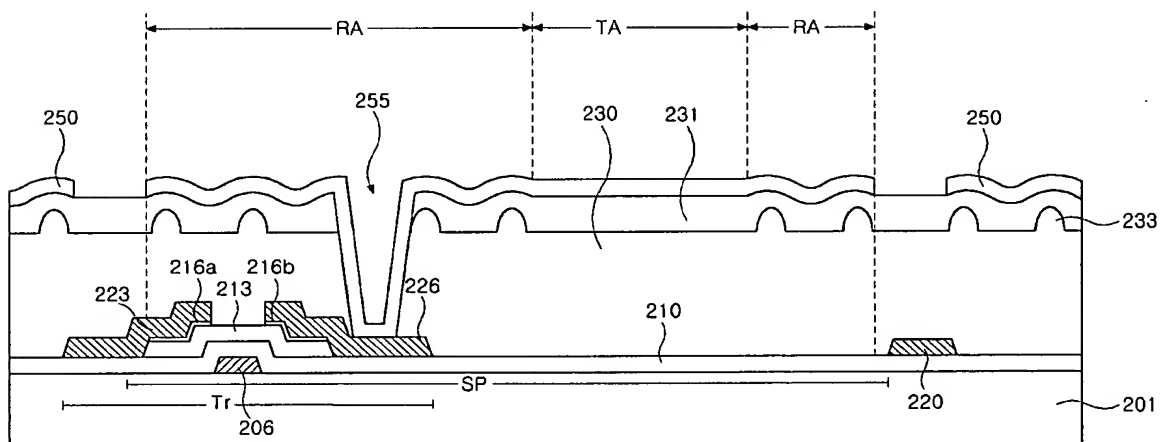


FIG. 8E

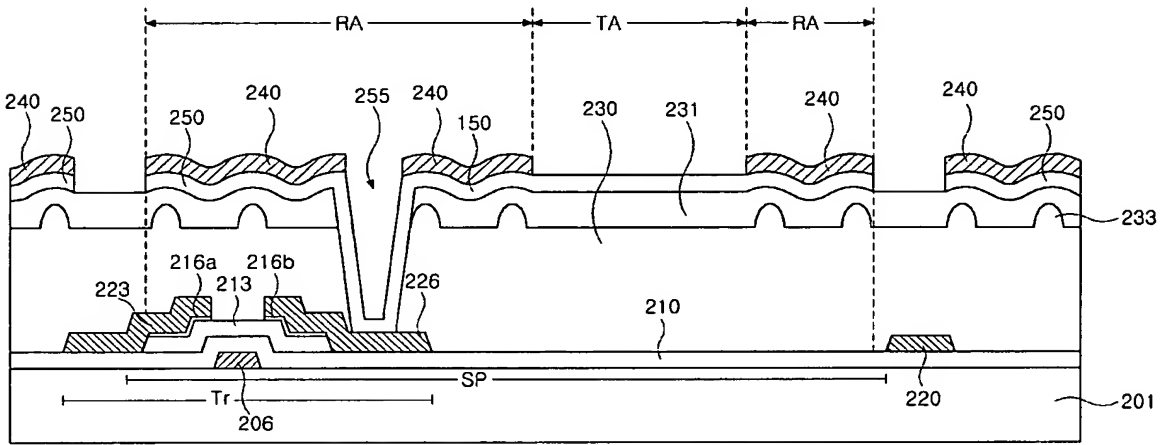


FIG. 9A

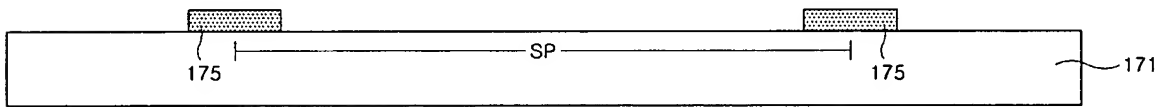


FIG. 9B



Figure 1 is a plan view of a color filter 170. The color filter 170 is mounted on a substrate 171. The color filter 170 includes a series of subpixels 180a, 180b, and 180c. Each subpixel 180a, 180b, and 180c includes a color layer (R, G, or B) and a transparent conductive layer (TH). The subpixels 180a, 180b, and 180c are separated by a spacer (SP). The color filter 170 is mounted on the substrate 171.

This cross-sectional view shows a pixel array structure 170. It features a substrate 171 with a series of pixel regions. Each pixel region contains a subpixel with a specific color filter (R, G, or B) and a transparent conductive layer (TH). The structure is divided into three main sections: 180a, 180b, and 180c. Section 180a contains a red (R) subpixel. Section 180b contains a green (G) subpixel. Section 180c contains a green (G) and blue (B) subpixel. The regions are separated by a series of raised structures 185. The distance between the raised structures is labeled RA, and the distance between the subpixels is labeled TA. A series of horizontal lines 175 are shown below the subpixels, and a series of vertical lines 175 are shown between the subpixels. A series of horizontal lines 175 are shown below the subpixels, and a series of vertical lines 175 are shown between the subpixels. A series of horizontal lines 175 are shown below the subpixels, and a series of vertical lines 175 are shown between the subpixels.